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2. (Twice Amended) A process for qualitative and/or quantitative detection of analytes in homogeneous immunoassays comprising measuring remanent magnetization of bound magnetic markers in a sample, wherein at the time of measurement the magnetization of unbound magnetic markers that are present in the sample in their totality fades owing to extrinsic superparamagnetism.

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3. (Thrice Amended) A process for qualitative and/or quantitative detection of analytes in a liquid or solid phase homogeneous immunoassay, comprising

- (i) labeling first structure-specific substances, with ferrimagnetic or ferromagnetic substances,
- (ii) adding said magnetic labeled structure-specific substances to a sample that is to be measured,
- (iii) magnetizing the sample to be measured with the aid of a magnetic field or suitable intensity that is applied from outside and,
- (iv) measuring the remanence of the magnetization of bound structure-specific substances with the aid of magnetic field sensors after the external field is shut off, without removing unbound structure-specific substances.